



Cisco

C1-C2960X-48TS-L

Datasheet

Product Overview

- Cisco's Catalyst 2960-X series is a fixed-configuration, stackable Gigabit Ethernet switch built for enterprise-class performance.
- It fits perfectly in campus networks and branch office environments, addressing the needs of network administrators and IT managers.
- The C1-C2960X-48TS-L offers 48 Gigabit Ethernet ports, 4 dedicated SFP uplinks, and delivers enterprise-grade reliability.
- Key features include advanced Layer 2/3 switching, comprehensive device onboarding, and robust monitoring capabilities.
- Centralized management through Cisco IOS Software simplifies deployment, configuration, and reduces maintenance efforts.
- Designed for large-scale access and business-critical operations, this model ensures network stability, scalability, and energy efficiency.

Product Highlights

- **Full-Gigabit Connectivity:** The switch supports 48 Gigabit Ethernet ports for high-performance data traffic and stable business connectivity.
- **Flexible Uplink Options:** With 4 fixed 1G SFP uplinks, it enables diverse aggregation and uplink scenarios for seamless network expansion.
- **Advanced Device Management:** Multiple management options including web UI, Bluetooth, CLI, SNMP, and console interfaces simplify operation.
- **Stacking & Security Enhancements:** FlexStack-Plus stacking and robust security features deliver scalable networks with improved protection.

Detailed Features



C1-C2960X-48TS-L

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Component	Specification
Uplink Interfaces	4 x 1G SFP Ports
Ethernet Ports	48 x 10/100/1000 Gigabit ports
Switching Capacity	216 Gbps
Forwarding Performance	107.1 Mpps
Stacking Support	Up to 8 units



Enterprise-Grade Security

The Catalyst 2960-X delivers robust network access control, including MAC-based VLAN assignment, 802.1X authentication, and Cisco TrustSec. These features safeguard the organization against unauthorized access and policy breaches, ensuring compliance and reducing vulnerabilities with dynamic identity-based policies across endpoints.

Comprehensive Threat Mitigation

IPv6 First-Hop Security, device sensors, and device classifiers provide advanced protection for expanding device ecosystems, including BYOD. The technology detects and blocks rogue announcements, address spoofing, and fake DHCP replies, securing both IPv4 and IPv6 environments.

Integrity and Trust with Image Verification

Cisco Trust Anchor helps maintain software integrity by verifying the Cisco IOS image authenticity during boot-up. Validating firmware signatures and system licenses, it ensures only trusted assets are managed and prevents installation of rogue firmware or unauthorized code.

Enhanced Traffic Management (QoS)

The 2960-X offers intelligent Quality of Service with up to eight egress queues per port, strict priority queuing, SRR, and WTD. This empowers organizations to classify, manage, and prioritize critical voice, video, and data traffic for smooth operations, even in high-traffic conditions.

Optimized Scaling and Memory Management

Switch Database Manager templates allow dynamic allocation of TCAM resources for MAC addresses, routing, security, and QoS. This flexibility lets administrators fine-tune the device for specific needs, maximizing performance and network reach as requirements grow.

Redundancy and Rapid Failover

Reliability is reinforced by cross-stack EtherChannel support and Flex Links for sub-100ms failover. Hardware redundancy prevents single points of failure, while rapid convergence ensures business continuity across stacked units.

Efficient Planning and Deployment

Cisco SmartOperations brings simplicity to LAN planning, troubleshooting, and monitoring with automated configuration and proactive health checks. These capabilities lower operational costs and reduce the time needed to deploy and manage large access networks.

Simplified Configuration & Version Management

Features like Cisco AutoSecure, DHCP auto configuration, and stacking management enable seamless rollout. Automatic software version checks and synchronized updates across the stack streamline maintenance and minimize manual intervention.

Technical Specifications

Product Specifications

Feature	Value
enclosure type	Rack-mountable - 1U
Ports	48 x 10/100/1000 + 4 x 1G SFP
Network management Interface	10/100 Mbps Ethernet (RJ-45)
Available PoE Power	None
Forwarding bandwidth(Gbps)	108Gbps
Maximum stacking number	8
Stack Bandwidth	80G
Forwarding Performance	107.1Mpps
Switching bandwidth	216Gbps
Maximum active VLANs	1023
MAC Address Table Size	16K (default)
CPU	APM86392 600MHz dual core



Feature	Value
RAM	512 MB
Flash Memory	128 MB
Status Indicators	Per-port status: Link integrity, disabled, activity, speed, and full duplex
System status	System, RPS, Stack link status, link duplex, and link speed
Expansion / Connectivity Console ports	USB (Type-B), Ethernet (RJ-45)
Stacking cable	Optional
Power Redundancy Option	PWR-RPS2300
Voltage range (Auto)	110V-240V
Power Consumption Operational	0.051KVA
Width	17.5 Inches (44.5 cm)
Depth	11 Inches (27.9 Cm)
Height	1.75 Inches (4.5 cm)
Package Weight	20.26 Pounds (9.19Kg)
Weight	9.4 Pounds (4.2Kg)
Rack Mounting Kit	optional
MTBF in hours	476,560
Operating temperature up to 5000 ft (1500 m)	23°F to 113°F
Operating temperature up to 10,000 ft (3000 m)	23°F to 104°F
Short-term exception at sea level*	23°F to 131°F
Short-term exception up to 5000 feet (1500 m)*	23°F to 122°F
Short-term exception up to 10,000 feet (3000 m)*	23°F to 113°F
Short-term exception up to 13,000 feet (4000 m)*	23° to 104°F
Storage temperature up to 15,000 feet (4573 m)	-13° to 158°F
Operating altitude	Up to 10,000 feet
Storage altitude	Up to 13,000 feet
Operating relative humidity	10% to 95% noncondensing
Storage relative humidity	10% to 95% noncondensing



Product Comparison

Feature	C1-C2960X-48TS-L	C9300-24U-E	C9300-48T-E
Fixed Ports	48 x 10/100/1000 + 4 x 1G SFP	24 x 10/100/1000 + 8 x mGig + 4 x 1G/10G SFP+	48 x 10/100/1000 + 4 x 1G/10G SFP+
Switching Capacity	216Gbps	256Gbps	256Gbps
Forwarding Rate	107.1Mpps	190.4Mpps	190.4Mpps
PoE Power	None	Up to 1100W	None
Stacking Support	Up to 8 units	Up to 8 units	Up to 8 units
Management Interface	Web, CLI, SNMP, Bluetooth, USB	Web, CLI, SNMP, Bluetooth, USB	Web, CLI, SNMP, Bluetooth, USB
Layer 3 Routing	Static, RIP, OSPF	Advanced routing support	Advanced routing support
Redundant Power	Supported (optional)	Supported	Supported

Accessories

Category	Accessories
Included Accessories	- Power Cord - Mounting Bracket - Console Cable
Optional Accessories	- SFP Transceiver - Redundant Power Supply (PWR-RPS2300) - Stacking Cable



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References

[1] Cisco Systems. (2023). Cisco Catalyst 2960-X Series Switches Data Sheet. Retrieved from https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-2960-x-series-switches/datasheet_c78-728232.html#SwitchModelsandConfigurations